

Notice of Allowability

Application No.

10/679,441

Examiner

LaTanya Bibbins

Applicant(s)

HSU ET AL.

Art Unit

2627

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5 January 2007.
2. ☒ The allowed claim(s) is/are 1-19, 22, and 23 (to be renumbered 1-21).
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

WAYNE YOUNG
SUPERVISORY PATENT EXAMINER

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-19, 22, and 23 (to be renumbered 1-21) are allowed.
2. The following is an examiner's statement of reasons for allowance:

Regarding claims 1-19, none of the references of record, alone or in combination, suggest or fairly teach **detecting an amplitude of a first kind of reference signal filtered and for outputting a first detecting signal; detecting a level of a second kind of reference signal and outputting a second detecting signal; detecting a revolution of a third kind of reference signal and outputting a third detecting signal; enabling a shock signal when the first, the second and the third detecting signals are simultaneously enabled** in such a manner that a rejection under 35 U.S.C. 102 or 103 would be proper.

Regarding claims 22 and 23, none of the references of record, alone or in combination, suggest or fairly teach **a counter for receiving the reference signal and outputting revolution length of the reference signal; an averaging unit for receiving the revolution length and generating an average signal; a subtracter for computing difference between the revolution length and the average signal, and outputting the difference as an eigenvalue; and a hysteresis comparator for receiving the eigenvalue, enabling the detecting signal when the eigenvalue is greater than a high threshold value, and disabling the detecting signal when the eigenvalue is smaller than a low threshold value** in such a manner that a rejection under 35 U.S.C. 102 or 103 would be proper.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Citation of Relevant Prior Art

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Matsui (US 6,930,964) discloses an information storage apparatus including a servo error generation detector.

Tsuji (US 7,023,781) discloses an optical disk apparatus wherein an interruption of a recording causes an encoder to enter a waiting state.

Baba et al. (US 4,703,468) disclose an optical disc tracking, servo circuit having compensation for disc defects and external disturbances.

Roth et al. (US 5,212,678) disclose a system for recording and reading information at a constant scanning speed.

Tsukihashi (US 6,775,211) discloses a system and method for disk recording.

Sakuma (US 5,634,031) discloses an optical disk system having table-of-contents information data.

Pan et al. (US 2002/0048240) disclose a link writing method for a recordable compact disk.

Smith (US 2003/0198157) discloses a method of CD/DVD vibration detection by monitoring motor conditions.

Ota et al. (US 5,886,966) disclose an optical disk vibration sensing and reproducing device.

Baas (US 5,867,461) disclose an optical recording and [reproducing apparatus with servo compensation for detected defects and external shocks.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LaTanya Bibbins whose telephone number is (571) 270-1125. The examiner can normally be reached on Monday through Friday 7:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on 571 272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



LaTanya Bibbins



WAYNE YOUNG
SUPERVISORY PATENT EXAMINER